

PRELIMINARY - FOR REVIEW ONLY

NAVSEA
STANDARD ITEM

FY-05

ITEM NO: 009-59
DATE: 30 AUG 2002
CATEGORY: I

1. SCOPE:

1.1 Title: Organotin Antifouling Material; control

2. REFERENCES:

2.1 S9086-VD-STM-010/CH-631, Volume 1, Preservation of Ships in Service

3. REQUIREMENTS:

3.1 Accomplish work associated with application, removal, or disturbance of organotin materials in accordance with 2.1, using this item for control, clean-up, safety precautions, and environmental practices.

3.1.1 Apply and dispose of organotin material in accordance with federal, state, and local regulations.

3.1.2 Personnel with occupational exposure to organotin shall be in the medical monitoring program.

3.1.3 Safety and environmental protection shall include total encapsulation of the work site.

3.1.3.1 Blank ship intake ventilators and close hatches within the work site enclosure to prevent entry of paint, blasting particles, or vapors into the ship. Take precautions to prevent circulation of paint mists and vapors throughout the interior of the ship.

3.1.3.2 Remove all unnecessary equipment from the containment.

3.1.4 Accomplish the following clean-up at the completion of the painting or blasting operation:

3.1.4.1 Sweep (in a wet state) or vacuum all dry dock and equipment surfaces after painting or blasting.

3.1.4.2 Clean up accidental spills immediately.

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3.1.4.3 Decontaminate keel blocks, staging, planks, suspended platforms, dry dock, or equipment surfaces contaminated with organotin paint prior to reuse.

3.1.5 Provide personal protective equipment (PPE) for personnel as follows:

3.1.5.1 Organotin workers shall wear protective impervious clothing, including gloves, aprons, suits, hoods, and boots when needed to prevent skin contact.

3.1.5.2 Abrasive blasting operators, in addition to their regular protective clothing, shall wear rubber boots and impervious coveralls as outer garments. All openings shall be taped.

3.1.5.3 Blasters/blasting support personnel (personnel within the work area containment) shall use self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand mode, or a combination supplied-air respirator with full facepiece and an auxiliary self-contained air supply operated in pressure-demand mode.

3.1.5.4 Protective equipment shall be cleaned before/after use.

3.1.5.5 Personnel handling potentially contaminated items shall wear rubber gloves and disposable coveralls.

3.1.5.6 Where small areas of paint removal are required, a small containment shall be set up around the area. Paint removal other than blasting shall be used to remove paint a minimum of 6 inches on either side of repair.

3.1.6 Provide training for all personnel involved in the application, removal, disturbance, or disposal of organotin and support personnel. Training shall be documented.

3.1.6.1 Training shall include the hazards, physical symptoms, appropriate emergency procedures, and proper conditions and precautions for the safe handling or use of organotin to workers in areas where exposure may occur. Additionally, training shall include the use of PPE and shall ensure that personnel have a knowledge of job hazards, proper maintenance, clean up methods, and respirator usage.

3.1.7 As a minimum, the following safety and health precautions shall be enforced:

3.1.7.1 No eating, drinking, or smoking in work areas.

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3.1.7.2 Protective clothing must be worn.

3.1.7.3 Avoid inhaling vapor, dust, mist, or fumes.

3.1.7.4 Avoid direct contact of paint with skin.

3.1.7.5 Avoid eye and skin contact with mist or spray.

3.1.7.6 After working with organotin and immediately upon removal of protective clothing, personnel must shower using soap and water unless otherwise informed.

3.1.7.7 Avoid contact between hands and mouth if hands have been exposed to the material.

3.1.8 Post the exposure zone whenever organotin work is in progress.

3.1.8.1 During the application, removal or disturbance of organotin, a sign must be posted at each entrance to the work area and at each entrance to the dry dock reading: ANTI-FOULING PAINT CONTAINING ORGANOTIN BEING APPLIED OR REMOVED.

3.1.8.2 Work areas shall be posted with signs stating PPE requirements.

4. NOTES:

4.1 None.